

Bioinformatics Analyst Job Description

The Bioinformatics Analyst will be a key member of Roswell's Algorithm & Signal Processing Group focused on developing a novel biosensor technology platform.

Duties

- Design and implement signal processing algorithms for discriminating signatures correlated to processing real-time electrical measurements of Roswell's biosensor
- Develop software tools and reports, including the primary and secondary bioinformatics analysis pipeline for Roswell's Biosensor Platform including design and implementation of algorithms for aggregating arrayed biosensor results to achieve high accuracy
- Setup and maintain the computational platform that runs the analysis pipeline
- Assist with drafting and completing manuscripts for publication; manage data analysis and interpretation of proof of concept study results throughout manuscript publication process from draft through submission and acceptance
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Qualifications

- Either B.S. and 2 – 5 years experience, or MS and 0 – 2 years experience in Bioinformatics, Computer Science, or a related field with a significant quantitative base.
- Requires experience in genomics or life sciences industry or similar academia research
- Possess in-depth scientific understanding of genomics and shows a strong capacity for independent thinking
- Track record of achievement in developing computational biology methods, preferably Python and MATLAB
- Highly desirable experience in software engineering, writing production level code with rigorous testing
- Confident, proactive individual capable of taking the initiative and driving to results.
- Strong organizational skills in order to maintain a high level of productivity innovation, and setting priorities in order to complete assignments in a timely manner

Desired Skills and Experience

- Working knowledge of genomics and experience with Next-Generation Sequencing technology, tool usage and data analysis
- Understanding and usage of biostatistics and bioinformatics algorithms
- Critical problem solving and data analysis
- Experience with bioinformatics tools and databases (NCBI, UCSC Genome Browser, IGV)

- Familiar with UNIX environment and use of clusters to parallelize the execution of computational methods
- Proficiency in multiple languages such as MATLAB, Python, Pearl, R, Java, C++, and/or C#

Desired Attributes

- Demonstrates superior written and verbal communication skills
- Pursues everything with passion, drive, integrity and energy
- Accepts ownership, is accountable and delivers on commitments. Focuses time and efforts on what's important
- Fails fast; comes up with new and unique ideas, and injects the learning in next experiments and iterations
- Energized by tough challenges; willing to be the only champion for an idea or position
- Effectively collaborates on inter-disciplinary teams